

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 22, 1993

Date Received: January 19, 1993

Project: 7238, Filter Room Heavy Metals, PO #M27378

**RESULTS FROM THE ANALYSIS OF DUST SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)
Results Reported as $\mu\text{g/g}$ (ppm)**

Sample ID M27378

Analyte:

Arsenic	<1.0
Barium	15
Cadmium	3.1
Chromium	1,300
Lead	50
Mercury	<1.0
Selenium	<1.0
Silver	1.5
Copper	14,000
Nickel	2,800
Zinc	180

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Quality Assurance

<u>Sample #</u>	<u>Blank</u>	<u>M27378</u> <u>(Duplicate)</u>
<u>Analyte:</u>		
Arsenic	<1.0	<1.0
Barium	<1.0	17
Cadmium	<1.0	4.0
Chromium	<1.0	1,500
Lead	<1.0	52
Mercury	<1.0	<1.0
Selenium	<1.0	<1.0
Silver	<1.0	1.5
Copper	<1.0	15,000
Nickel	<1.0	3,100
Zinc	<1.0	170

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**RESULTS FROM THE ANALYSIS OF DUST SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)
Results Reported as % Recovery
Quality Assurance**

<u>Sample #</u>	<u>M27378 Matrix Spike % Recovery</u>	<u>M27378 Matrix Spike Duplicate % Recovery</u>	<u>Spike Level (ppm)</u>
<u>Analyte:</u>			
Arsenic	92%	98%	50
Barium	72%	85%	25
Cadmium	75%	78%	25
Chromium	ai	ai	25
Lead	67%	62%	50
Mercury	92%	83%	50
Selenium	84%	91%	50
Silver	102%	102%	10
Copper	ai	ai	25
Nickel	ai	ai	50
Zinc	ai	ai	25

ai The amount spiked was insufficient to give meaningful recovery data.

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(METHOD 6010)**

Results Reported as % Recovery
Quality Assurance


<u>Sample #</u>	<u>Spike Blank</u>	<u>Spike Level (ppm)</u>
<u>Analyte:</u>		
Arsenic	107%	50
Barium	116%	25
Cadmium	112%	25
Chromium	117%	25
Lead	114%	50
Mercury	115%	50
Selenium	109%	50
Silver	117%	10
Copper	118%	25
Nickel	119%	50
Zinc	112%	25



Send Report To: Alaskan Copper Workers Contact Gerald Thompson
Company 628 Hanford ST
Address Seattle WA 98134
City, State, Zip (206) 623-8800 x218
Phone # 1/19/92
Date

SITE NO. 7238		PROJECT NAME Siltex Room Heavy metals		PURCHASE ORDER # M 27378	
SAMPLERS (signature) 			PROJECT LOCATION		
REMARKS			SAMPLE DISPOSAL INFORM.		
			<input type="checkbox"/> Dispose after 30 days <input checked="" type="checkbox"/> Return Samples <input type="checkbox"/> Call for Instructions		

[illegible]

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: 	Gerald Thompson	Alaskan Copper	1/19/92	1:22 pm
Received by: Kathy McMullen	FBI	Kathy McMullen	1/19/93	1:22 pm
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3008-B 16th Avenue West
Seattle, WA 98119
FAX: (206) 283-5044

January 22, 1993

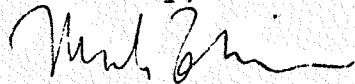
Gerry Thompson, Project Leader
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material
submitted on January 19, 1993 from Project 7238, Filter
Room Heavy Metals, PO #M27378.

We appreciate this opportunity to be of service to you
and hope you will call if you should have any
questions.

Sincerely,



Mark Z Perin
Chemist

MZP/dp

Enclosures